

IN THE CLAIMS:

a1

Dkr G7

1. (Twice Amended). A purified, isolated and cloned DNA or amino acid sequence encoding a polypeptide required for the synthesis of antibiotic TA [or a shorter polypeptide portion of said polypeptide] said polypeptide being selected from the group consisting essentially of SEQ ID NOS 1-19 and analogs thereof.

DRAFT EDITION NO. 2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

a2

Dkr G3

3. (Twice Amended). A purified, isolated and cloned DNA or amino acid sequence consisting of a [DNA] sequence encoding a polypeptide required for post modification of antibiotic TA [or a shorter polypeptide portion of said polypeptide] said polypeptide being selected from the group consisting essentially of SEQ ID NOS 1-19 and analogs thereof.

a3

Dkr G7

5. (Amended) A purified, isolated and cloned DNA or amino acid sequence consisting of a [DNA] sequence encoding a gene product involved in a regulation of the biosynthesis of antibiotic TA said polypeptide being selected from the group consisting essentially of SEQ ID NOS 1-19 and analogs thereof.

a4

Dkr G7

7. (Twice Amended) A purified, isolated and cloned DNA sequence consisting of a DNA sequence as set forth in SEQ ID NO: [1 and] 2.